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	Application No.	Applicant(s)
	10/775,236	MURAKAMI ET AL.
Notice of Allowability	Examiner	Art Unit
	Walter L. Lindsay, Jr.	2812
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to <u>a Continuation filed c</u>	<u>on 2/11/04</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-5</u> .		
3. $\boxtimes$ The drawings filed on <u>11 February 2004</u> are accepted by t	he Examiner.	
4. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. \( \subseteq  Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
<ol> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received in this	national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>		
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a)  including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTO-	948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir the header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2/11/2004</li> </ol>	<u>_</u>	nent/Comment
4.   Examiner's Comment Regarding Requirement for Deposit	<del></del>	ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	11/1/11

MICHAEL LEBENTRITT SUPERVISORY PATENT EXAMINER Application/Control Number: 10/775,236

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### **DETAILED ACTION**

This Office Action is in response to a Continuation filed on 2/11/2004. Currently, claims 1-5 are pending.

#### **Examiner's Amendment**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In section (g) of claim 1, "extention" should be "extension" and in line 3 "forth" should be "fourth", also in claim 3 line 2 "extention" should be "extension".

## Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

# Allowable Subject Matter

- 3. Claims 1-5 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:
- ...(c) forming a first gate insulation film on the first well, a second gate insulation film on the second well, a third gate insulation film on the third well and a fourth gate

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insulation film on the fourth well, wherein the first and third gate insulation film are thicker than the second and fourth gate insulation film;

- (d) applying oxynitridation to the first, second, third and fourth gate insulation film;
- (e) forming a first gate electrode of a first MISFET on the first gate insulation film, a second gate electrode of a second MISFET on the second gate insulation film, a third gate electrode of a third MISFET on the third gate insulation film and a fourth gate electrode of a fourth MISFET on the fourth gate insulation film;
- (f) implanting an ion that contains nitrogen or nitrogen atoms, using a resist mask having a opening at a forming region of the third MISFET, and after the step (e); and
- (q) forming a first extension region of the first MISFET, a second extension region of the second MISFET, a third extension region of the third MISFET, and a fourth extension region of the fourth MISFET, after the step (f), as required by claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571) 272-1674. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL LEBENTRITT
SUPERVISORY PATENT EXAMINER